



## CLAIMS

We claim:

8. A knock down pallet rack workbench comprising:

a pair of rectangular vertical posts positioned to provide vertical support to one side of the pallet rack, each of said posts comprised of rolled steel forming a C-channel, either of a rectangular cross section or a square cross section, each of said vertical posts having equally spaced apertures traversing along the length of the vertical post face, said opposite vertical post face designated to be that containing the C-channel in-turned lips, each pair of said vertical posts positioned with its apertures facing outward and connected by means of metal bracing, said bracing welded at the point of intersection with the C-channel in-turned lips and forming a single rigid rack structure left or right side, said distance between the front and back vertical post in-turned lip surfaces being equal to the product of an average width dimension of one of a desired integral number of like pieces of a specified size of standard dry dimensional lumber and said integral number.

9. A knock down pallet rack workbench comprising:

a plurality of vertical posts, a plurality of horizontal cross beams, and means for connecting horizontal cross beams to the left and right of each vertical post centerline, said connections made by interconnecting metal hooks or rivets located on the horizontal cross beam flange with equally spaced apertures located on the vertical post front face, said horizontal cross members formed of rolled steel and terminating into L-shaped brackets, said end brackets having a flange interconnecting with the vertical posts and a horizontal cross member bracket wall, said horizontal cross members having an outer wall facing external to the rack structure, an upper surface connecting perpendicular to the outer wall and forming the top of the horizontal cross member, an inner wall facing internal to the rack structure and connecting perpendicular to the upper surface, an upper lip/flange protruding in toward the center of the rack structure and perpendicular from the inner wall surface, and a lower lip/flange connecting perpendicular at the

bottom of the outer wall and protruding in toward the center of the rack and forming the bottom of the horizontal cross member; said horizontal cross member upper surface outer rack to inner rack depth set not to protrude inward of the vertical post in-turned lips and impede the positioning of dry dimensional lumber that is laid side by side parallel to the horizontal cross members and passing left or right between the front and back vertical posts.

10. A knock down pallet rack workbench as in claim 9, further comprising:

horizontal cross member L-shaped brackets with horizontal cross member flange wall material removed in the region bounded by the horizontal cross member inner wall surface and above the horizontal cross member upper lip/flange, so as not to impede the positioning of said dry dimensional lumber to form a tabletop surface between the front and rear vertical posts.

11. A knock down pallet rack workbench as in claim 9, further comprising:

horizontal cross members having an upper surface to lower lip/flange height equal to twice the thickness of dry dimensional lumber and some tolerance.

12. A knock down pallet rack workbench as in claim 9, further comprising:

horizontal cross members having an upper lip/flange to lower lip/flange height equivalent to the thickness of one dry dimensional lumber plus some tolerance, said lower lip/flange enabling dry dimensional lumber to be laid front to back of the rack structure as bracing for dry dimensional lumber that is laid parallel to the horizontal cross members and acting as a tabletop.

13. A knock down pallet rack workbench comprising:

a plurality of vertical posts, a plurality of horizontal cross beams, and means for connecting horizontal cross beams to the left and right of each vertical post centerline, said connections made by interconnecting metal hooks or rivets located on the horizontal cross beam flange with equally spaced apertures located on the vertical post front face, said horizontal cross members formed of rolled steel and terminating into L-shaped brackets, said end brackets having a flange interconnecting with the vertical posts and a horizontal cross member bracket wall, said horizontal bracket flange wall containing one or more holes to accommodate right angle braces

spanning from the front horizontal cross member flange wall to the rear horizontal cross member flange wall, said braces providing a left and right rack structure support to prevent horizontal cross members from disengaging under vibrations, said geometric plane established by right angle brace flange set equal within some tolerance to the geometric plane established by the horizontal cross member upper lip/flange, said right angle bracket flange containing a pattern of holes traversing along its length, said pattern of holes allowing for dry dimensional lumber to be laid side by side and fastened using commercial available wood screws as a tabletop surface.